



iPhone 6 Plus Rear Case Replacement

Replace the Rear Case in your iPhone 6 Plus.

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INTRODUCTION

Use this guide to replace a scratched or damaged rear case.

This guide requires removing the battery. When reinstalling the battery in your new case, refer to [this guide](#) to replace your battery's adhesive strips. The battery is pretty tightly secured in the device, but reinstalling it properly will keep it from rattling.



TOOLS:

- [P2 Pentalobe Screwdriver iPhone](#) (1)
- [iSclack](#) (1)
- [Suction Handle](#) (1)
- [iFixit Opening Tools](#) (1)
- [Spudger](#) (1)
- [Tweezers](#) (1)
- [iOpener](#) (1)
- [Plastic Cards](#) (1)
- [SIM Card Eject Tool](#) (1)
- [Phillips #000 Screwdriver](#) (1)
- [iFixit Opening Picks set of 6](#) (1)
- [Flathead 3/32" or 2.5 mm Screwdriver](#) (1)




PARTS:

- [iPhone 6 Plus OEM Rear Case](#) (1)
- [iPhone 6 Plus Blank Rear Case](#) (1)
- [iPhone 6 Plus Wi-Fi Bluetooth Antenna](#) (1)

Step 1 — Pentalobe Screws



 Before disassembling your iPhone, discharge the battery below 25%. A charged lithium-ion battery can catch fire and/or explode if accidentally punctured.

- Power off your iPhone before beginning disassembly.
- Remove the two 3.6 mm P2 Pentalobe screws next to the Lightning connector.

Step 2 — iSclack Opening Procedure



- i** The next two steps demonstrate using the [iSclack](#), a great tool for safely opening the iPhone 6 Plus that we recommend for anyone doing more than one repair. **If you aren't using the iSclack, skip to Step 4.**
- If the plastic depth gauge is attached at the center of the iSclack, remove it now—it's not needed for larger phones like the iPhone 6 Plus.
 - Close the handle on the iSclack, opening the suction cup jaws.
 - Place the bottom of your iPhone in between the suction cups.
 - i** Position the iSclack's upper suction cup against the display, near the home button.
 - Open the handles to close the jaws of the iSclack. Center the suction cups and press them firmly onto the top and bottom of the iPhone.

Step 3



- Hold onto your iPhone securely and close the handle of the iSclack to separate the suction cups, pulling the front panel up from the rear case.
- ⓘ The iSclack is designed to safely open your iPhone enough to separate the pieces, but not enough to damage any of the display cables.
- Peel the two suction cups off your iPhone.
- **Skip the next three steps and continue on to Step 7.**

Step 4 — Front Panel Assembly



- If you don't have an iSlack, use a single suction cup to lift the front panel:
- Press a suction cup onto the screen, just above the home button.
- ⓘ Be sure the cup is pressed securely onto the screen to get a tight seal.

Step 5



- While holding the iPhone down with one hand, pull up on the suction cup to slightly separate the front panel assembly from the rear case.
- ⚠ Take your time and apply firm, constant force. The display assembly is a much tighter fit than most devices.
- Using a plastic opening tool, begin to gently pry the rear case down, away from the display assembly, while continuing to pull up with the suction cup.
- ⓘ There are several clips attaching the front panel assembly to the rear case, so you may need to use a combination of the suction cup and plastic opening tool to free the front panel assembly.

Step 6



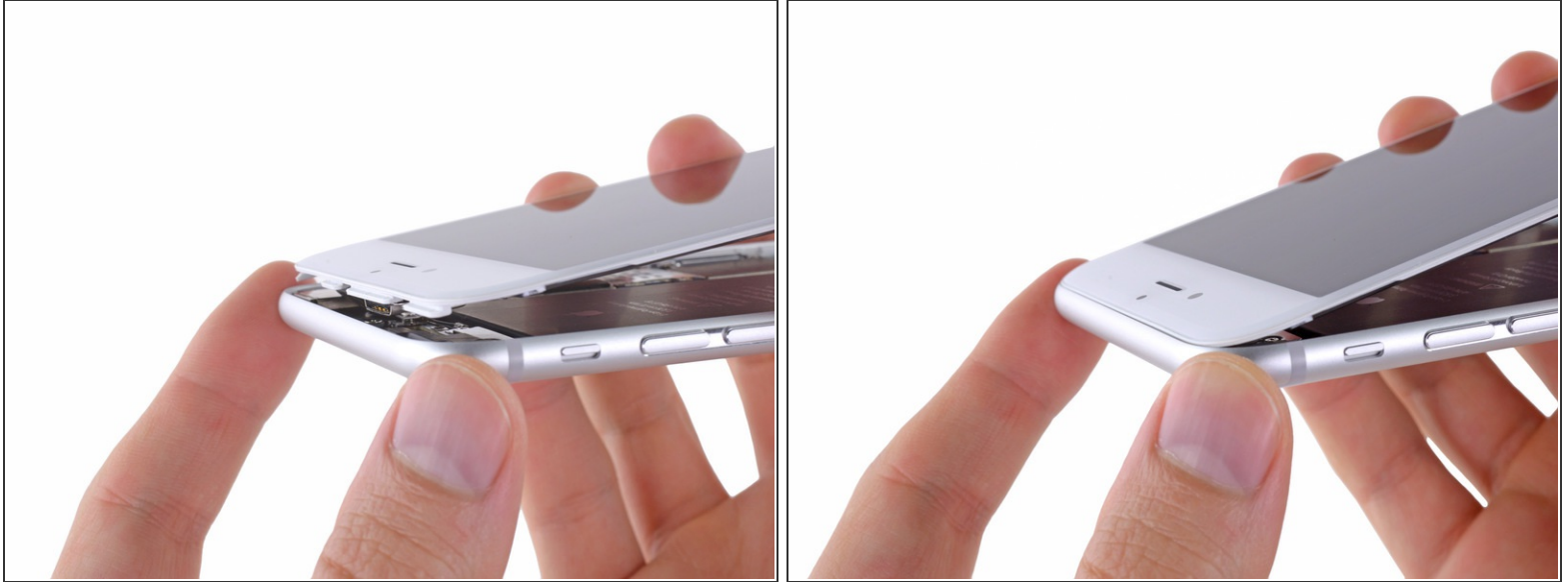
- Pull the plastic nub to release the vacuum seal on the suction cup.
- Remove the suction cup from the display assembly.



Step 7



- Pull the home button end of the front panel assembly away from the rear case, using the top of the phone as a hinge.
- Open the display to about a 90° angle, and lean it against something to keep it propped up while you're working on the phone.
 - Add a rubber band to keep the display securely in place while you work. This prevents undue strain on the display cables.
- ❗ In a pinch, you can use an unopened canned beverage to hold the display.

Step 8



-  Several clips along the top edge of the front panel form a partial hinge, allowing the front panel assembly to swing open like a book.
-  During reassembly, align the clips just below the top edge of the rear case. Then, slide the front panel upward until its top edge is flush with that of the rear case.

Step 9



- Remove the following Phillips screws from the battery connector bracket:
 - One 2.3 mm screw
 - One 3.1 mm screw

Step 10



- Remove the metal battery connector bracket from the iPhone.

Step 11



- Gently pry the battery connector up from its socket on the logic board.
- ⚠ Take care to **only** pry up on the battery connector, and not the socket on the logic board. If you pry up on the logic board socket, you may break the connector entirely.

Step 12



- While holding the front panel open at about a 90° angle, remove the following Phillips screws securing the front panel assembly cable bracket:

- Three 1.2 mm screws
- One 1.5 mm screw
- One 2.9 mm screw

⚠ Do not attempt to insert longer screws into the red marked screw holes. Doing so may result in irreparable damage to the logic board.

Step 13



- Remove the front panel assembly cable bracket from the logic board.

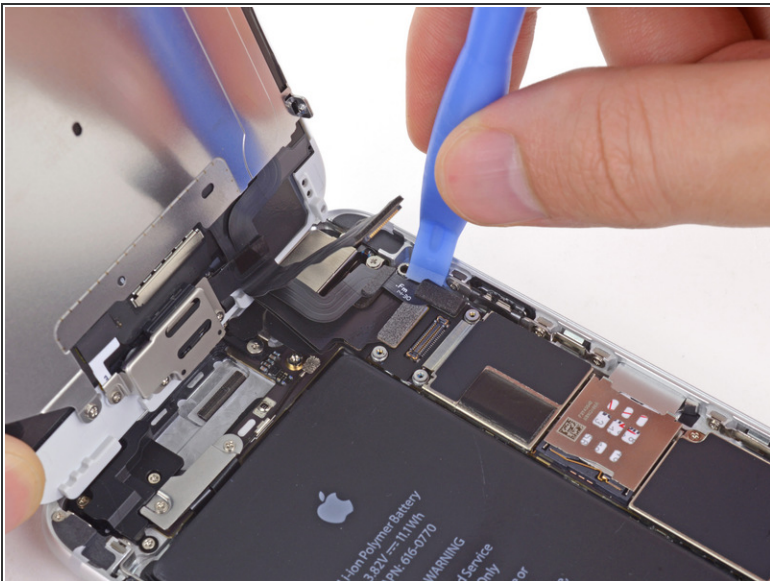
Step 14



⚠ In the next four steps, take care to pry up **only** on the cable connectors, and not on their sockets on the logic board.

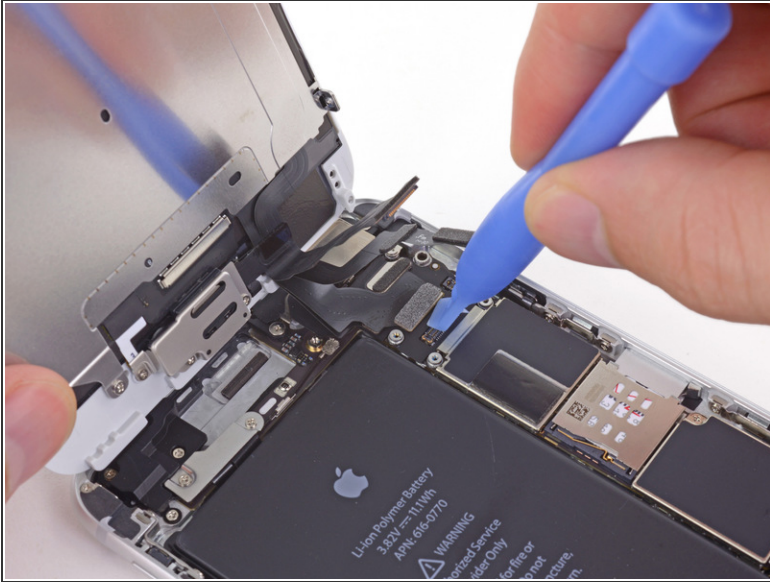
- While still supporting the front panel, use a plastic opening tool to disconnect the front-facing camera and earpiece speaker cable connector.

Step 15



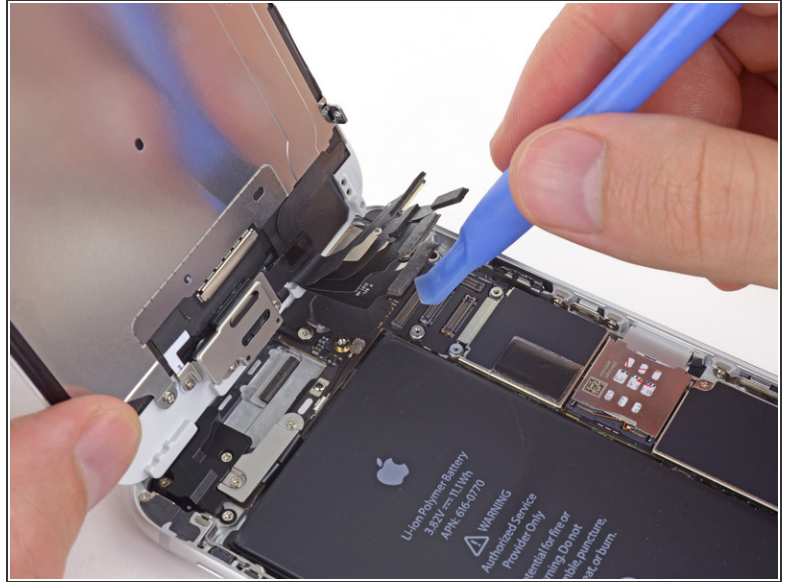
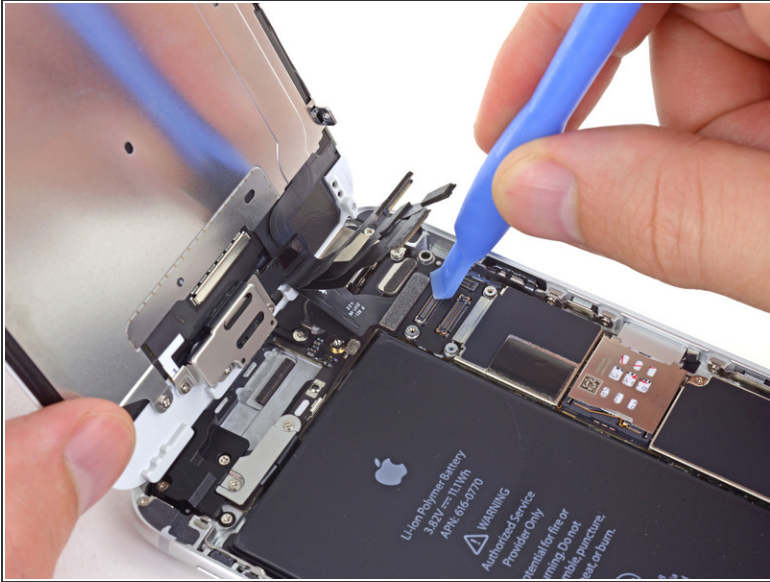
- Use a plastic opening tool to disconnect the home button cable connector.

Step 16



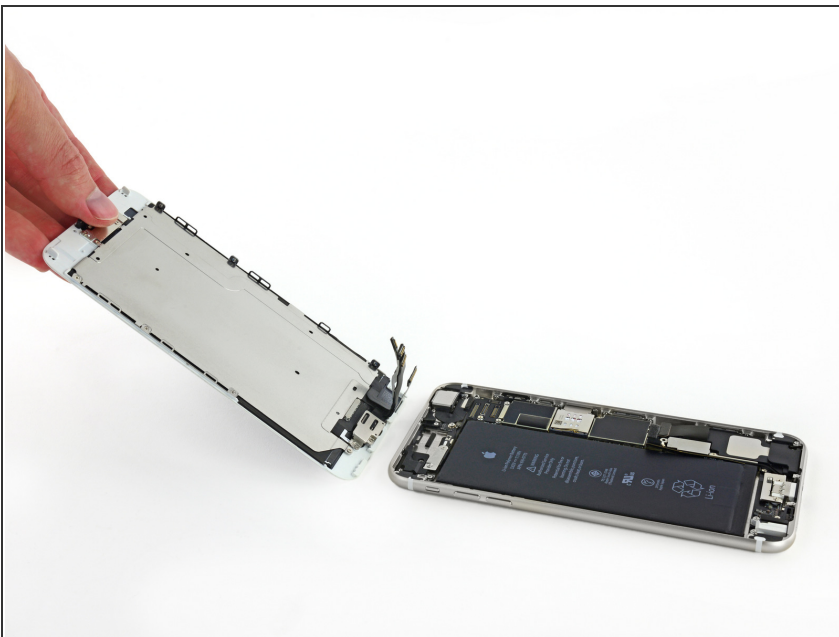
- Use a plastic opening tool to disconnect the display data cable connector.
- ★ When reassembling your phone, the display data cable may pop off the connector. This can result in white lines or a blank screen when powering your phone back on. If that happens, simply reconnect the cable and power cycle your phone. The best way to power cycle your phone is to [disconnect and reconnect the battery connector.](#)

Step 17



- Finally, use a plastic opening tool to disconnect the digitizer cable connector.
- ★ When reconnecting the digitizer cable, **do not press the center of the connector**. Press one end of the connector, then press the opposite end. Pressing in the center of the connector can bend the component and cause digitizer damage.

Step 18



- Remove the front panel assembly from the rear case.

Step 19 — Battery



- Peel back the first battery adhesive tab from the bottom right edge of the battery.

⚠ Use your fingers or blunt tweezers. Be extra careful when working near the battery; puncturing a lithium-ion battery can release dangerous chemicals and cause a fire.

Step 20



- Gently pull the battery adhesive tab away from the battery, toward the bottom of the iPhone.
 - To avoid tearing the adhesive strip, be careful not to pull against the battery or lower components.
- Continue pulling, allowing the strip to slowly slip out from between the battery and the rear case. When you feel increased resistance from the strip, stop pulling and continue with the next step.
- ⓘ If the battery adhesive tabs break during the removal process, use your fingers or blunt tweezers to retrieve the remaining length of adhesive, and continue pulling.
- ⚠ If any of the adhesive strips break underneath the battery and cannot be retrieved, try to remove the remaining strips, and then proceed to [Step 25](#).

Step 21



- When you feel increased resistance from the adhesive strip, pull it gently around the lower right corner of the battery.

⚠ Avoid snagging the adhesive strip on the corner of the battery or the strip may tear or break.

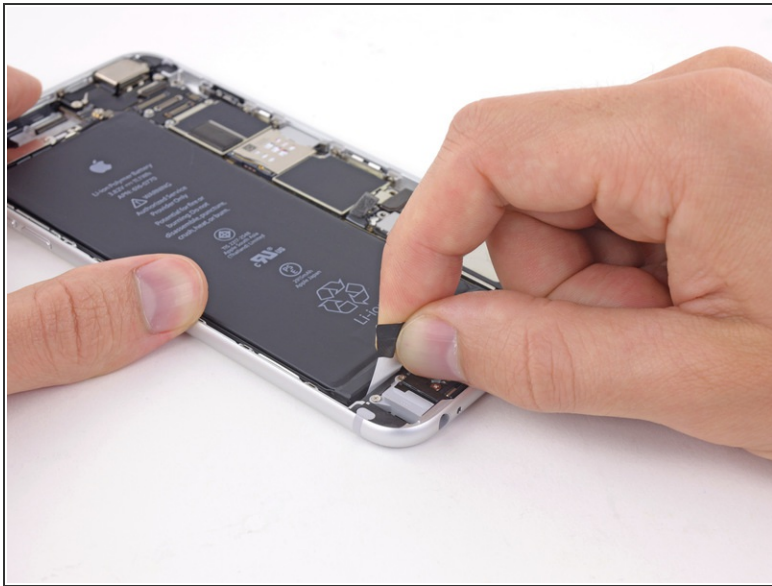
Step 22



- Continue pulling the adhesive tab upward and away from the right edge of the battery, allowing it to slowly slide out from between the battery and the rear case, until the strip comes free from the iPhone.

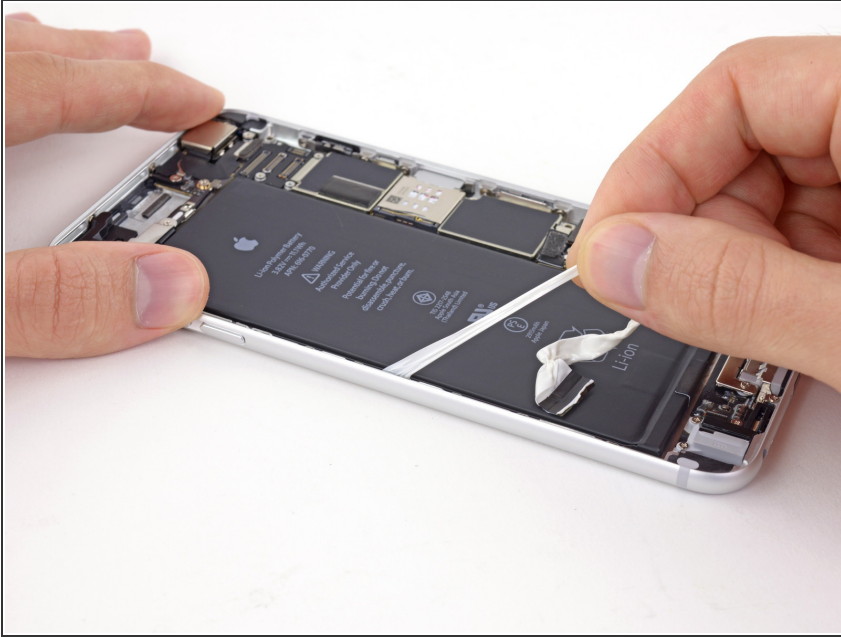
⚠ Don't allow the adhesive strip to snag on the battery connector, or it may tear or break off.

Step 23



- Peel back the second battery adhesive tab from the bottom left edge of the battery.
- Again, gently pull the battery adhesive tab upward and away from the battery, allowing the adhesive strip to slowly slide out from between the battery and the rear case.
- Continue pulling the adhesive tab until you feel increased resistance, and then stop.

Step 24




- When you feel increased resistance from the adhesive strip, pull it gently around the lower left corner of the battery.

⚠ Don't allow the adhesive strip to snag on the corner of the battery, or it may tear or break off.

- Continue pulling the adhesive tab upward and away from the left edge of the battery, allowing it to slowly slide out from between the battery and the rear case, until the strip comes free from the iPhone.

Step 25



- Peel back the final battery adhesive tab from the bottom edge of the battery.
 - Gently pull the battery adhesive tab upward and away from the battery, allowing the adhesive strip to slowly slide out from between the battery and the rear case.
 - Continue pulling until the final strip comes free from the iPhone.
 - If you removed all three adhesive strips successfully, **skip the next two steps and continue on [Step 28](#)**.
-  If any of the adhesive strips broke off underneath the battery and could not be retrieved, **continue with the next step below**.

Step 26



- If any of the adhesive strips broke off and the battery remains stuck to the rear case, [prepare an iOpener](#) or use a hair dryer to heat the rear case directly behind the battery.

Step 27



- Flip the iPhone back over and insert a plastic card between the left side of the battery and the rear case.
- ⚠ Don't pry under the topmost section of the battery, near the volume up button and mute switch, or you may damage the [audio controls cable](#), which is adhered to the rear case just beneath the battery.
- ⚠ **Do not** pry against the logic board, or you may permanently damage your iPhone.
- ⚠ Be careful to keep the card as flat as possible to avoid bending the battery, which may damage it and cause it to release dangerous chemicals.
- Press the card in farther to break up the adhesive behind the battery.

Step 28



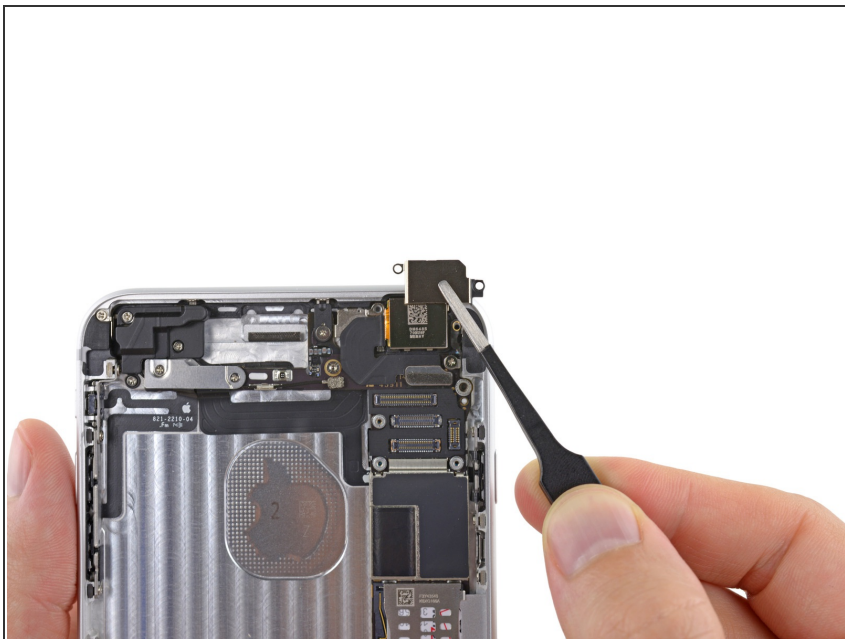
- Remove the battery from the iPhone.
- ✦ When installing the battery, refer to [this guide](#) to replace your battery's adhesive strips.
- ✦ Perform a [hard reset](#) after reassembly. This can prevent several issues and simplify troubleshooting.

Step 29 — Rear Facing Camera



- Remove the following screws securing the rear-facing camera bracket to the rear case:
 - One 1.7 mm Phillips #00 screw
 - One 2.3 mm Phillips #00 screw

Step 30



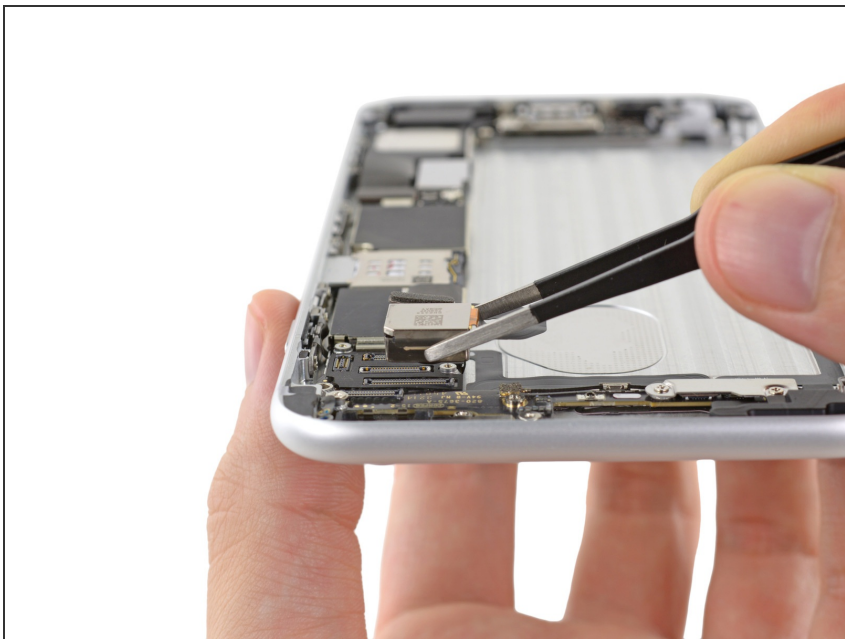
- Lift and remove the rear-facing camera bracket out of the iPhone.

Step 31



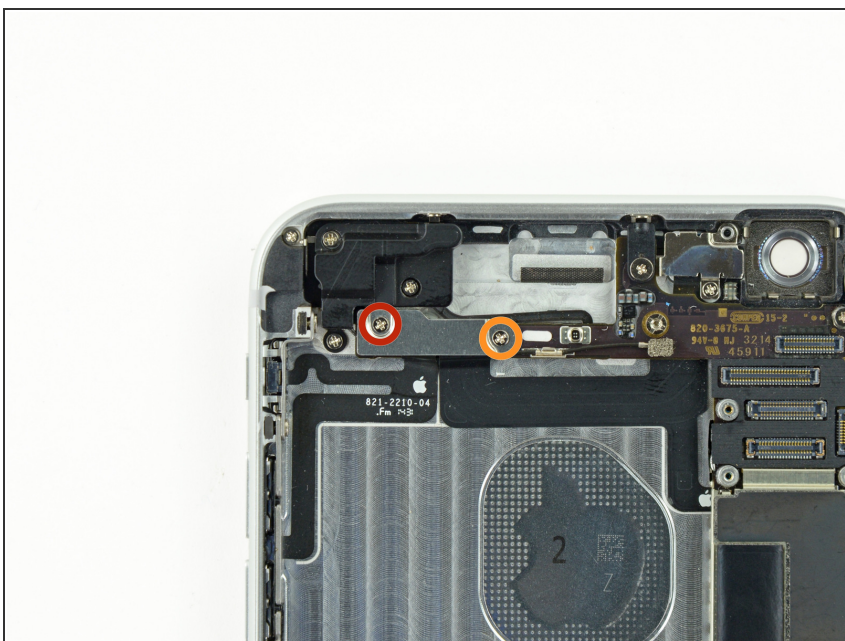
- Use the flat end of a spudger to disconnect the rear-facing camera connector from its socket on the logic board.

Step 32



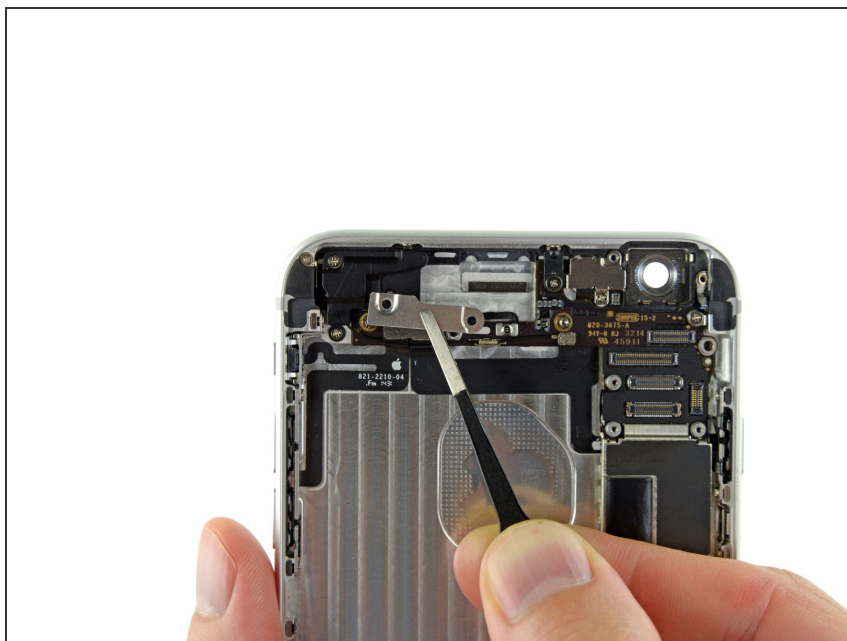
- Carefully lift and remove the rear-facing camera out of the iPhone.

Step 33 — Antenna Assembly



- Remove the following screws securing the antenna bracket to the rear case:
 - One 1.5 mm Phillips #00 screw
 - One 2.8 mm Phillips #00 screw

Step 34



- Grasp the antenna bracket with a pair of tweezers and lift it off the iPhone.

Step 35



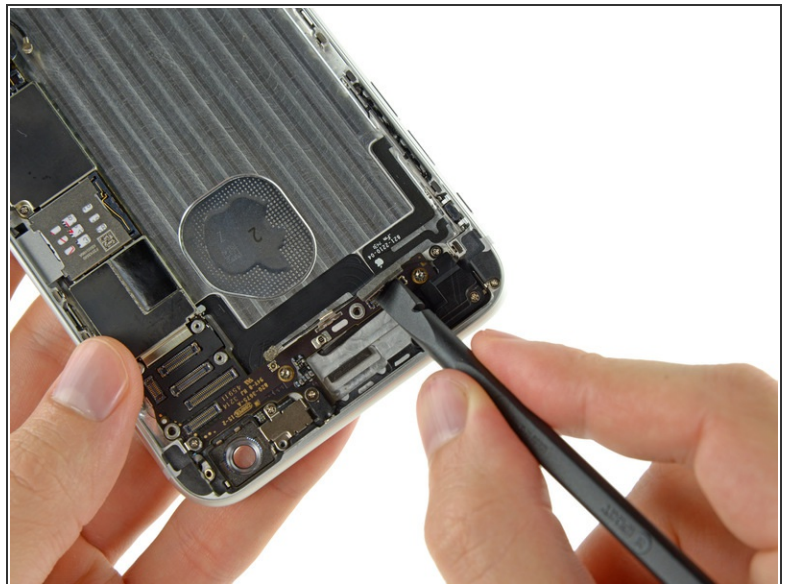
- Carefully pry the antenna connector up off the logic board with a plastic opening tool.

Step 36



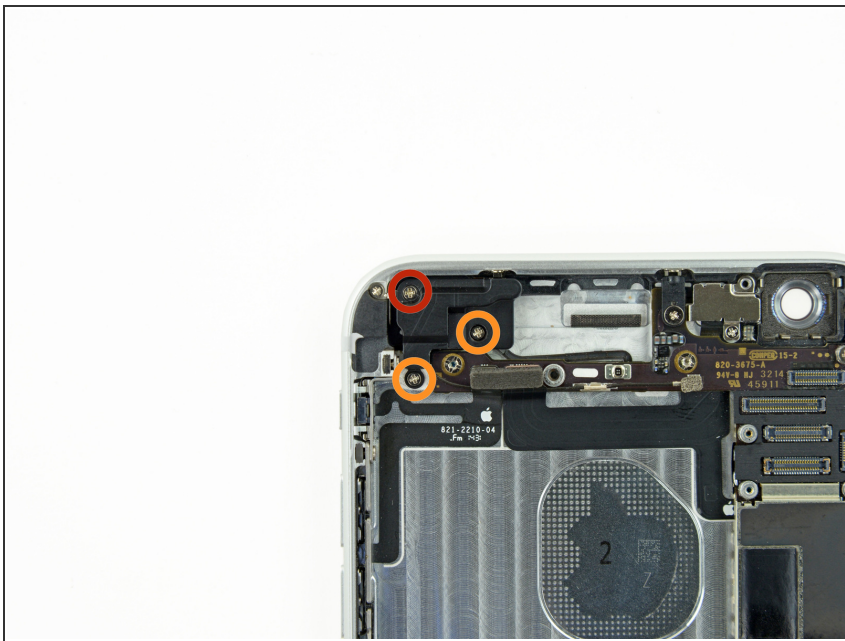
- Grasp the antenna connector with a pair of tweezers and gently lift it from its retaining clip on the logic board.

Step 37



- ⓘ The two connectors may be coupled by a single adhesive tab. If this is the case, then they may detach as a pair.
- Disconnect the power button cable and audio control cable connectors from their respective sockets on the logic board.

Step 38



- Remove the following screws securing the top cellular antenna to the rear case:
 - One 2.8 mm Phillips #00 screw
 - Two 1.6 mm Phillips #00 screws

Step 39



- Use a pair of tweezers to grasp and remove the top cellular antenna out of the iPhone.
- ✦ During reassembly, make sure to place the small washer in the top left corner of the antenna assembly.

Step 40 — Vibrator



- Pry the vibrator connector cable up from its socket on the logic board with the flat end of a spudger.

Step 41



- Use the tip of a spudger to disconnect the interconnect antenna cable from its socket on the logic board.

Step 42



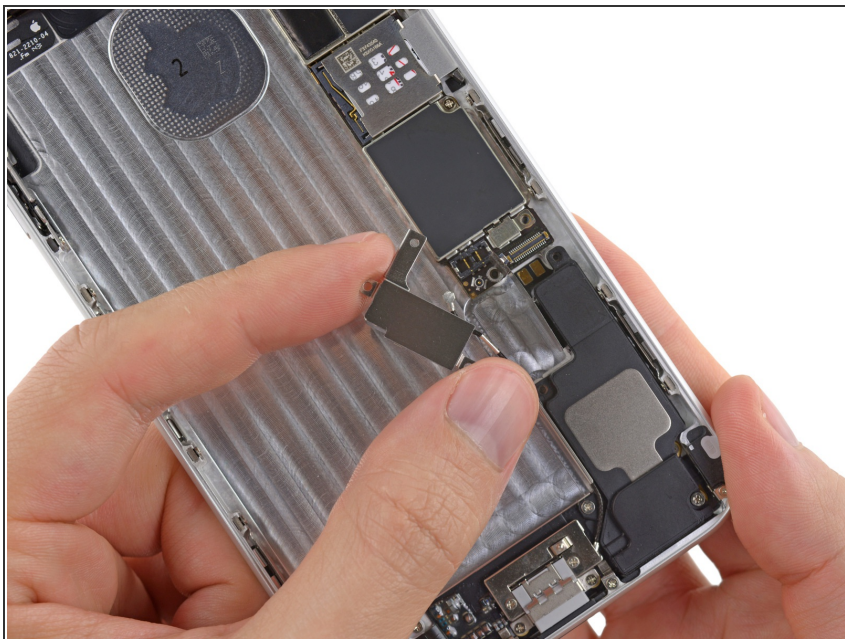
- Grasp the interconnect antenna cable with a pair of tweezers and carefully deroute it from its channel on the speaker assembly.

Step 43



- Remove the two 2.5 mm Phillips #00 screws securing the vibrator to the rear case.

Step 44



- Lift and remove the vibrator out of the iPhone.

Step 45 — SIM Card



- Insert a SIM card eject tool or a paperclip into the small hole in the SIM card tray.
- Press to eject the tray.

 This may require a significant amount of force.

Step 46



- Remove the SIM Card tray assembly from the iPhone.
- ✦ When reinserting the SIM card, ensure that it is in the proper orientation relative to the tray.

Step 47 — Logic Board Assembly



- Remove the single 2.8 mm Phillips #00 screw securing the plastic clip to the logic board.

Step 48



- Remove the single 1.3 mm Phillips #00 screw recessed against the top of the rear case.

Step 49



- Use a pair of tweezers to firmly grasp the plastic clip and remove it from the iPhone.

Step 50



- Remove the single 1.6 mm Phillips #00 screw securing the antenna clip to the rear case.

Step 51



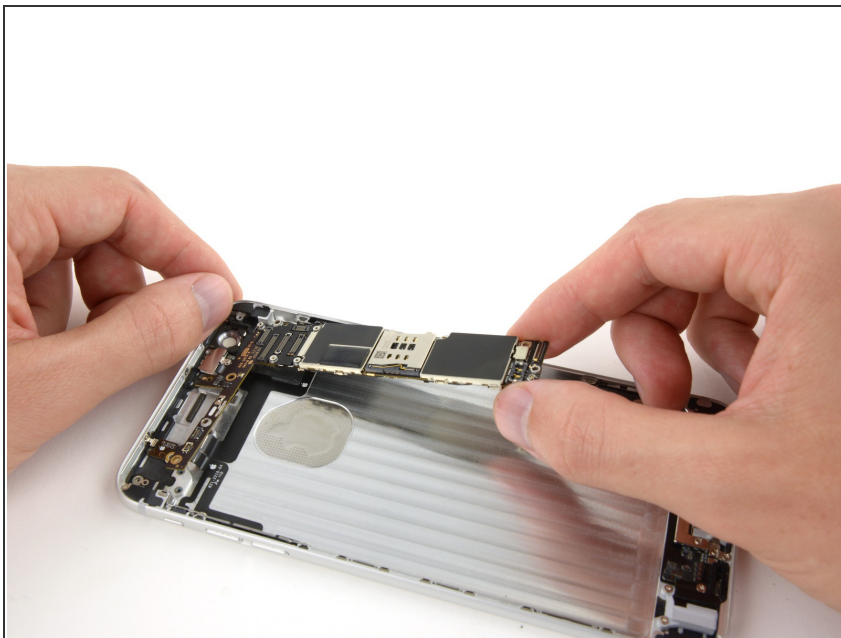
- Carefully grasp the antenna clip with a pair of tweezers and remove it from the iPhone.

Step 52 — Logic Board



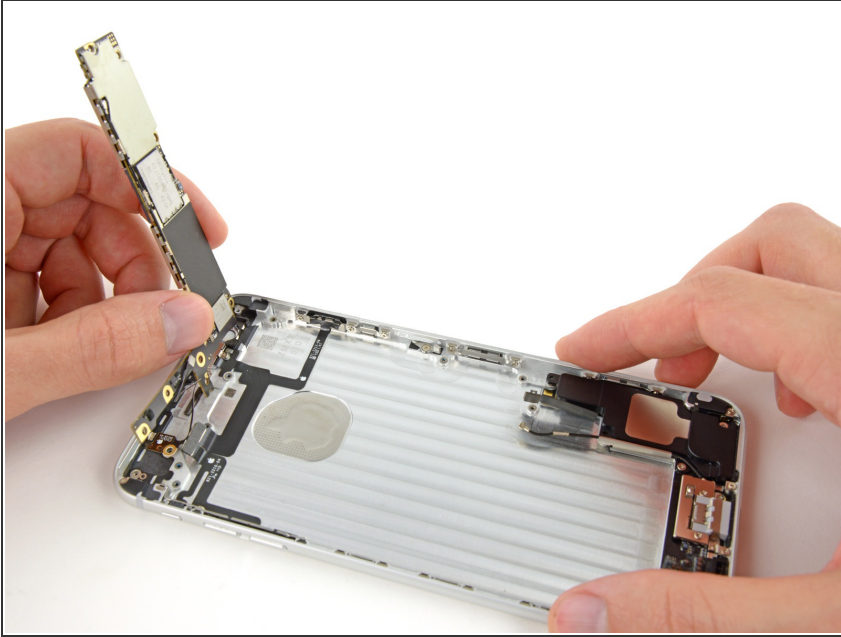
- Remove the following screws securing the logic board to the rear case:
 - Two 2.4 mm standoff screws
 - ⓘ Use a small flathead screwdriver to remove these standoff screws.
 - One 2.1 mm Phillips #00 screw


Step 53



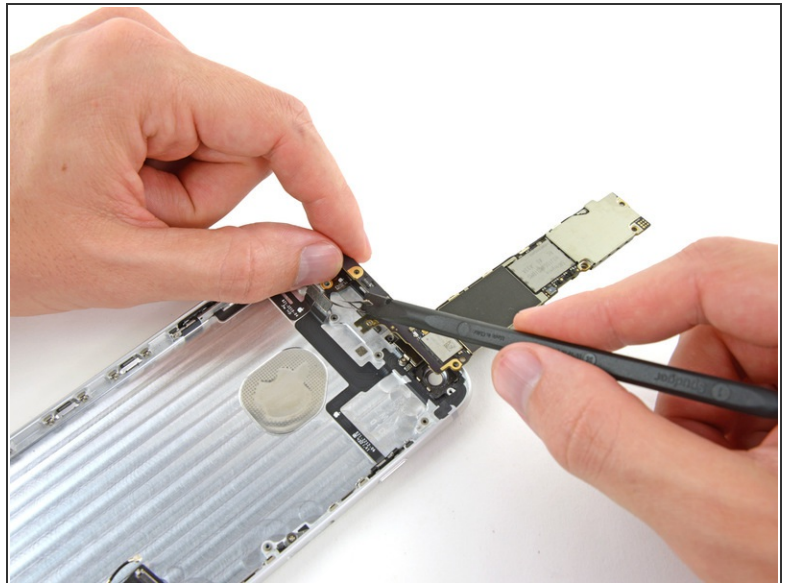
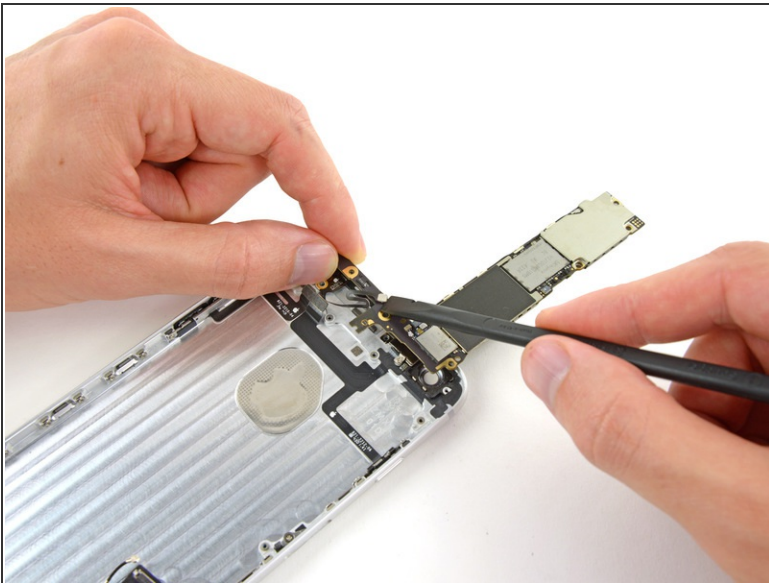
- Carefully raise—but do **not** remove—the logic board, lifting it from the bottom edge nearest the Lightning connector.

Step 54



-  Do **not** remove the logic board. At this point it is still tethered to the rear case via an antenna connector.
- Continue carefully lifting the bottom side of the logic board until it is vertical.

Step 55



- Gently lay the logic board upside-down, with the top portion resting against the rear case of the iPhone.
- Use the flat end of a spudger to disconnect the antenna connector from its socket on the back of the logic board.

Step 56



- Lift and remove the logic board out of the iPhone.

Step 57 — Power Button Cable



- Use a pair of tweezers to peel the single adhesive tab that resides on top of both the power button and audio control/rocker switch cable connectors.

Step 58



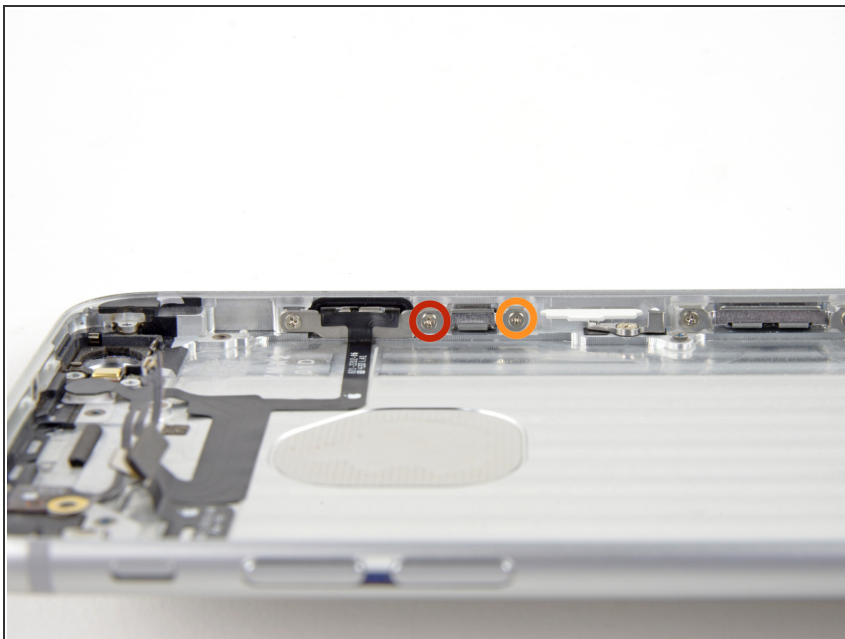
- Remove the single 1.3 mm Phillips #00 screw securing the power button cable bracket to the rear case.

Step 59



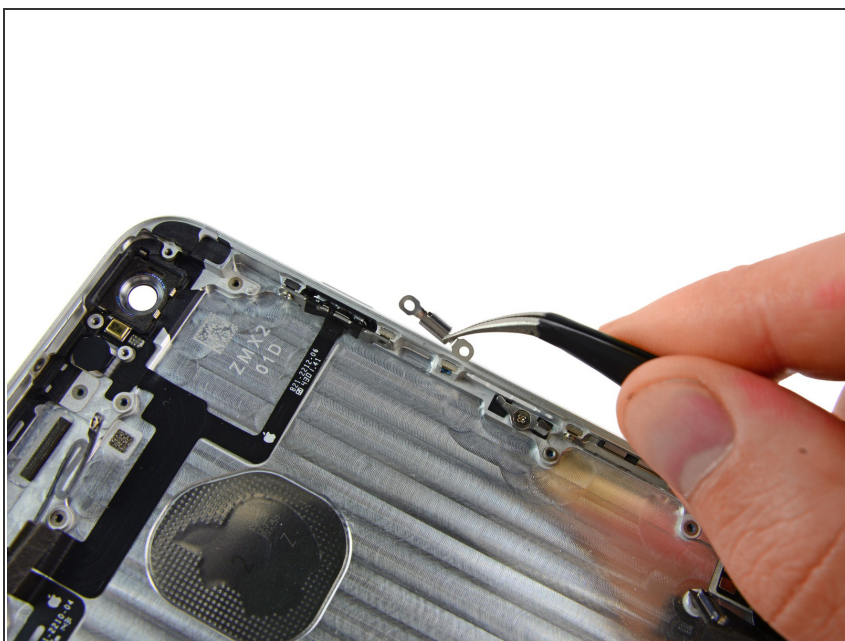
- Carefully grasp the bracket with a pair of tweezers and remove it from the iPhone.

Step 60



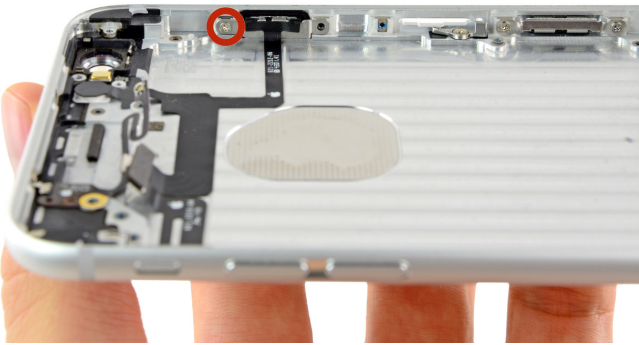
- Remove the following screws securing the power button cable bracket to the inner edge of the rear case:
 - One 2.1 mm Phillips #00 screw
 - One 1.7 mm Phillips #00 screw

Step 61



- Grasp the power button cable bracket with a pair of tweezers and remove it from the iPhone.

Step 62



- Remove the single 2.1 mm Phillips #00 screw securing the power button switch to the rear case.

Step 63



- Pull the power button switch out of its recess on the rear case with a pair of tweezers, and begin carefully peeling the power button cable from the rear case.

Step 64



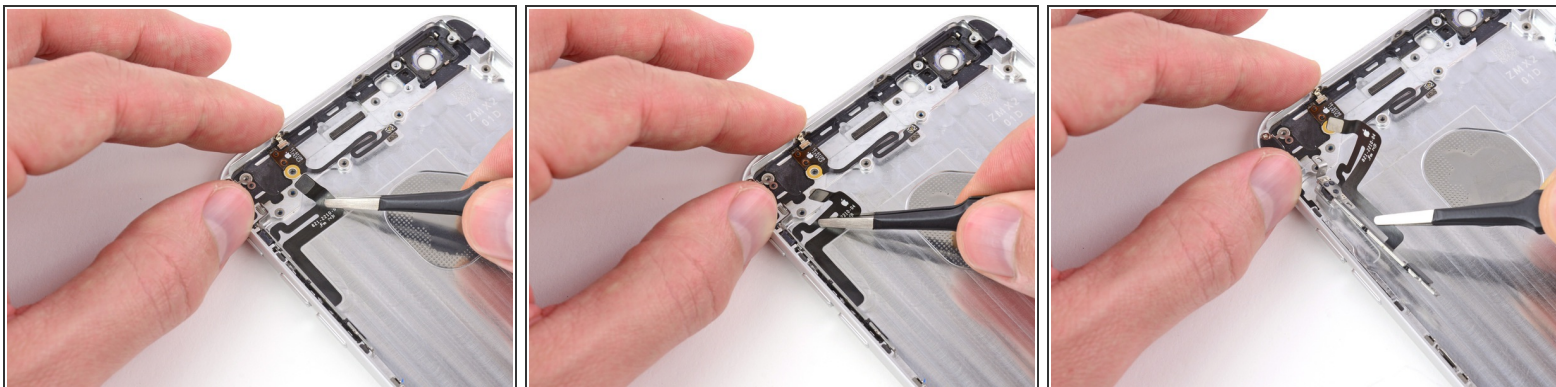
- Continue gently peeling the power button cable off the rear case and remove it from the iPhone.

Step 65 — Audio Control and Rocker Switch Cable



- Remove the following screws securing the audio controls and rocker switch to the rear case:
 - Two 2.0 mm Phillips #00 screws
 - One 2.5 mm Phillips #00 screw

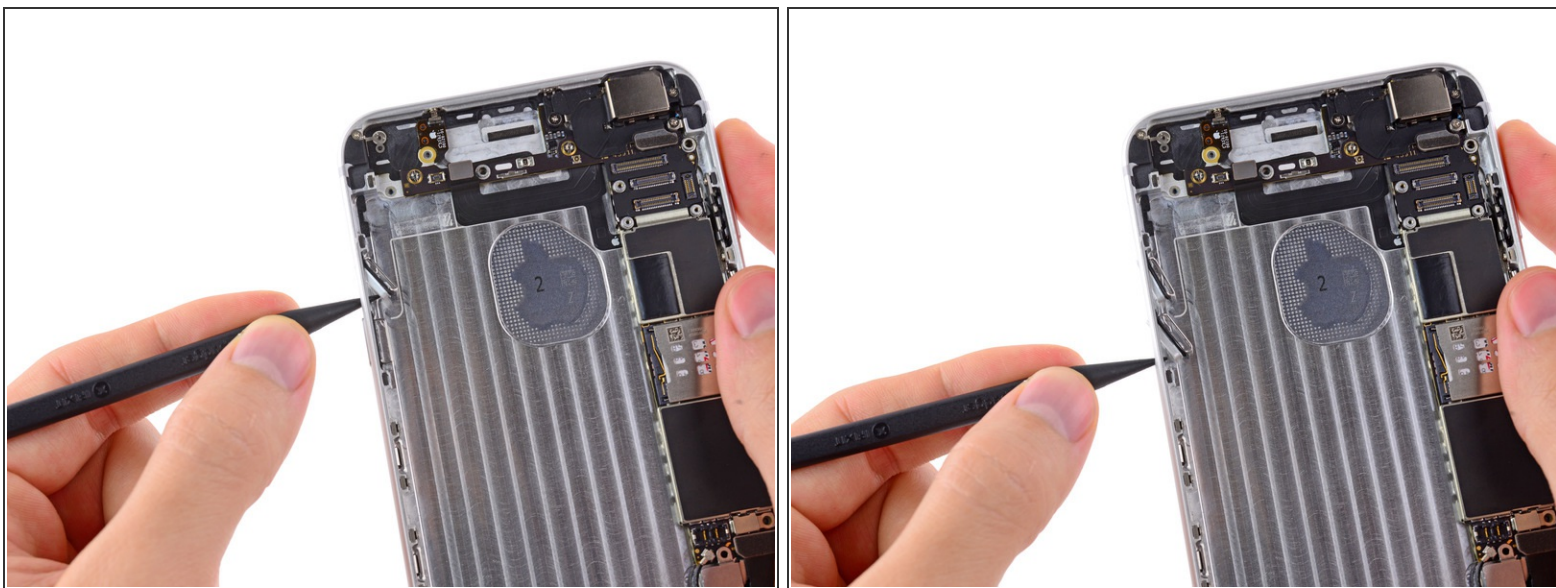
Step 66



- Grasp the audio control and rocker switch cable with a pair of tweezers.
- Slowly peel the audio control and rocker switch cable up off the rear case.

⚠ Peel with care. The cable is secured to the rear case with mild adhesive.

Step 67 — Audio Control and Rocker Switch Buttons



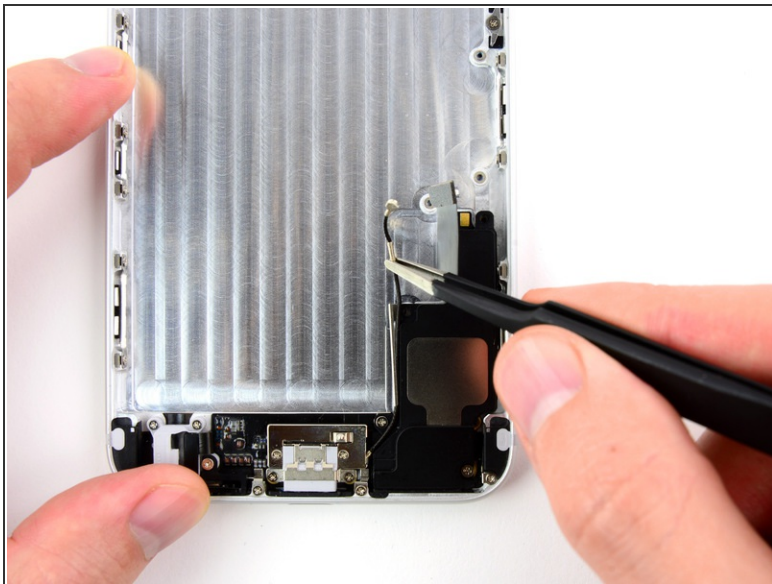
- Use the tip of a spudger to push the audio control and rocker switch buttons out of their recess on the rear case.

Step 68



- Gently grasp both top and bottom audio control buttons with a pair of tweezers and remove them from the iPhone.

Step 69 — Speaker



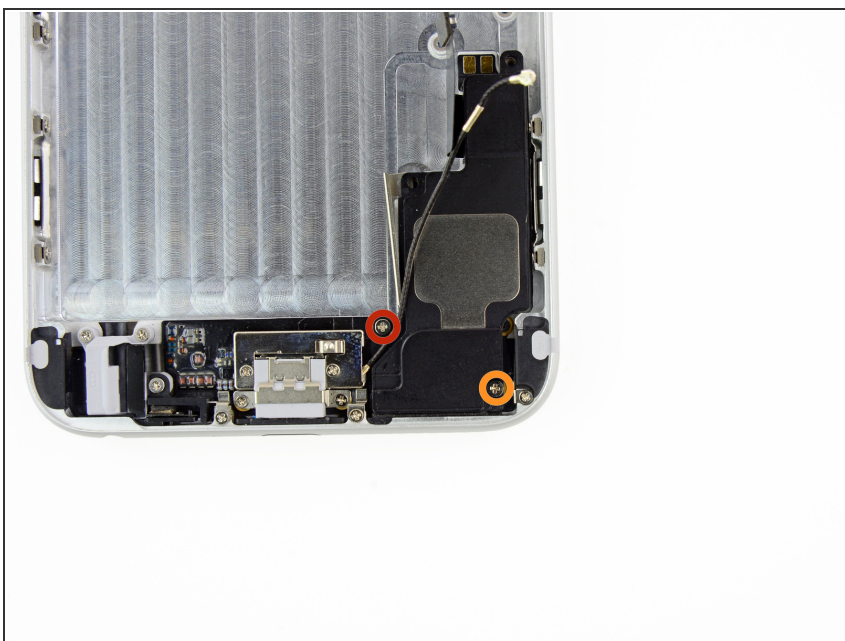
- Grasp the antenna connector with a pair of tweezers and carefully begin de-routing it from its channel on the speaker.

Step 70



- i** To fully de-route the antenna connector, you may need to gently pull back the metal clip securing it to the speaker assembly.

Step 71



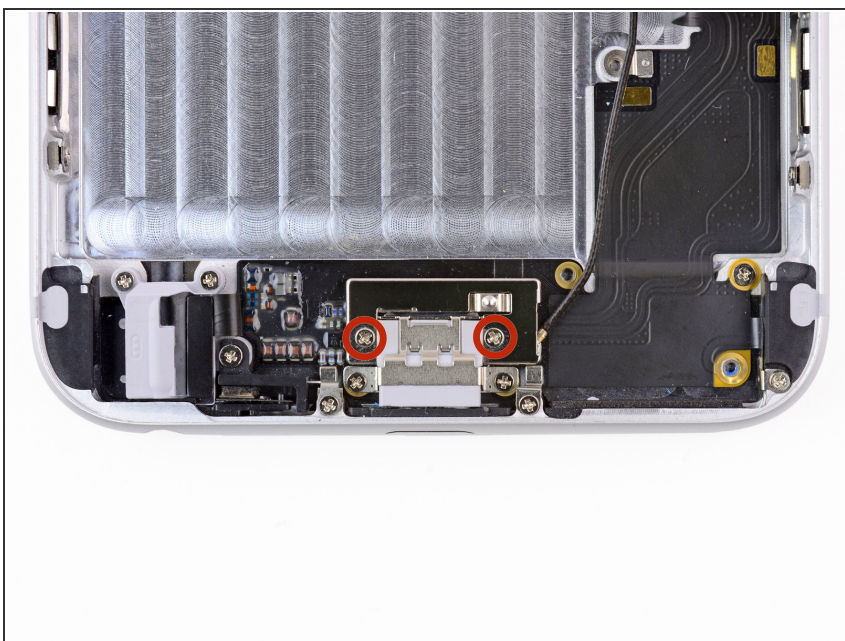
- Remove the following screws securing the speaker to the rear case:
 - One 2.3 mm Phillips #00 screw
 - One 2.8 mm Phillips #00 screw

Step 72



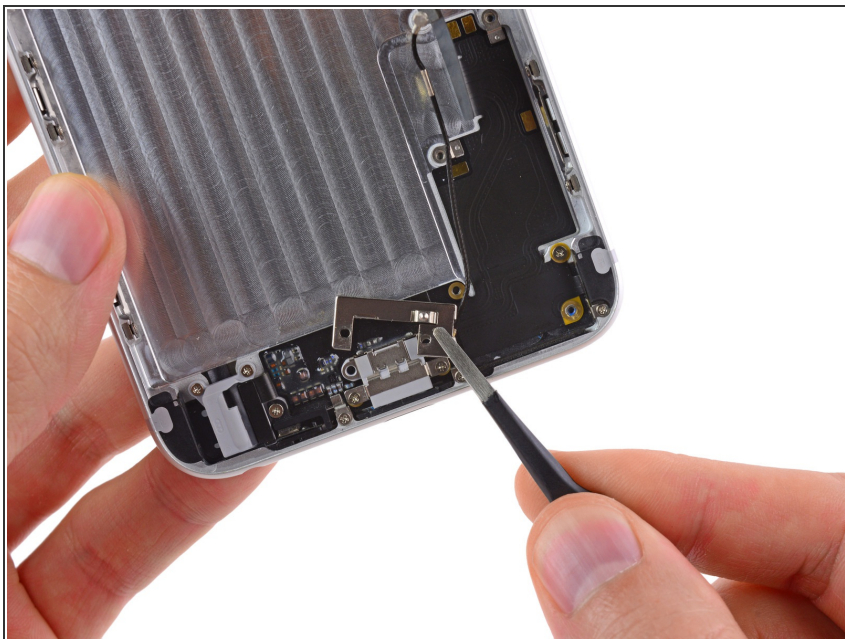
- Lift and remove the speaker out of the iPhone.

Step 73 — Lightning Connector Assembly



- Remove the two 3.3 mm Phillips #00 screws securing the metal bracket to the Lightning connector assembly.

Step 74



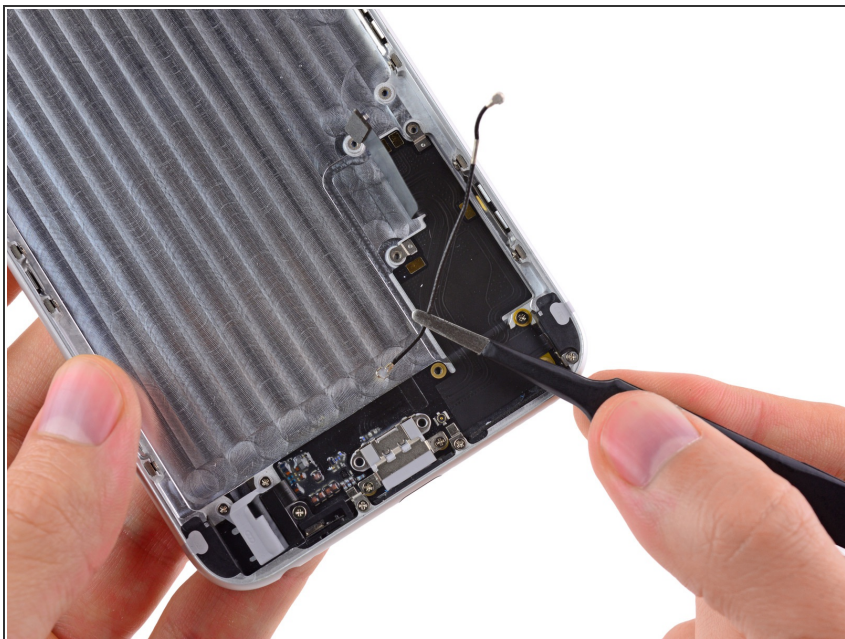
- Use a pair of tweezers to lift and remove the metal bracket out of the iPhone.

Step 75



- Use the flat edge of a spudger to pry the antenna connector cable up off its socket on the Lightning connector assembly.

Step 76



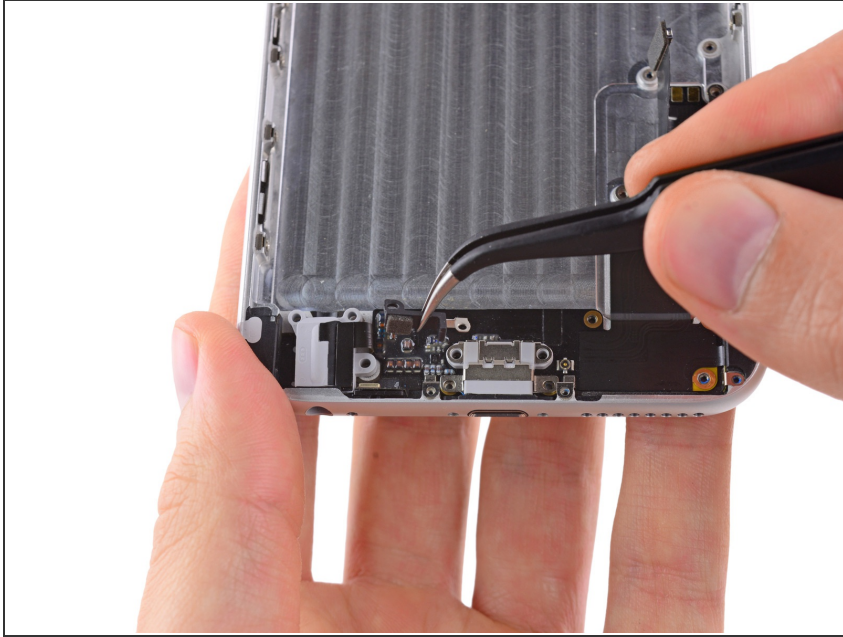
- Lift and remove the antenna connector out of the iPhone.

Step 77



- Remove the following Phillips #00 screws securing the Lightning connector assembly to the rear case:
 - Two 3.2 mm screws
 - One 3.8 mm screw
 - Two 1.7 mm screws
 - Two 1.5 mm screws
 - Two 1.4 mm screws

Step 78



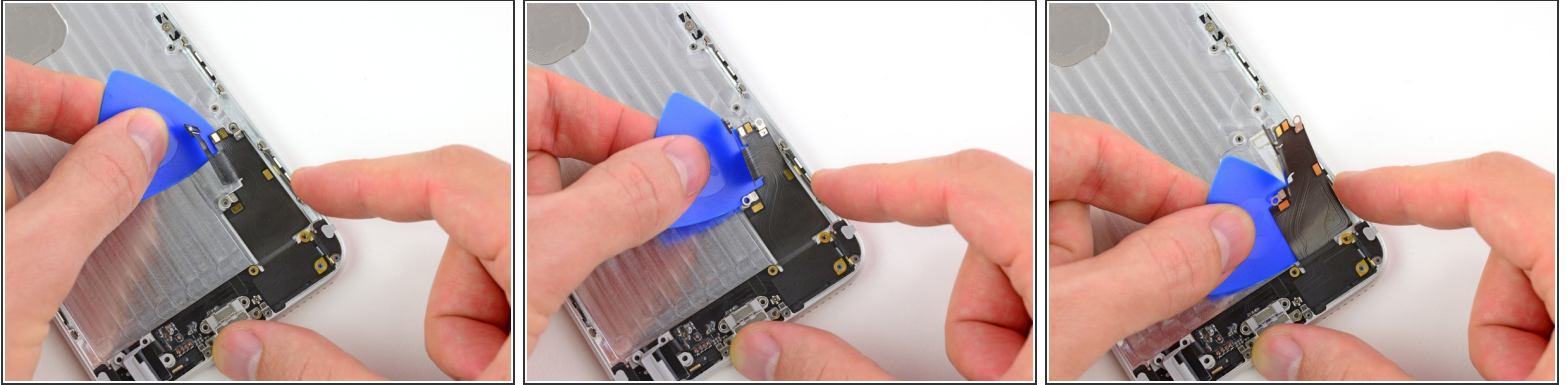
- Use a pair of tweezers to grasp the plastic clip that is situated to the right of the headphone jack and remove it from the iPhone.

Step 79 — Lightning Connector and Headphone Jack Cable



- ⓘ The next step requires peeling up the Lightning connector and headphone jack cable that is affixed to the inside of the rear case with mild adhesive. We highly recommend [using an iOpener](#) on the lower backside of the rear case to soften the adhesive.

Step 80



- Use an opening pick to slowly separate the Lightning connector and headphone jack cable from the rear case.
- ⓘ Carefully work the pick down the right side of the Lightning connector and headphone jack cable, making sure to **stop** right as you hit the bottom.

Step 81



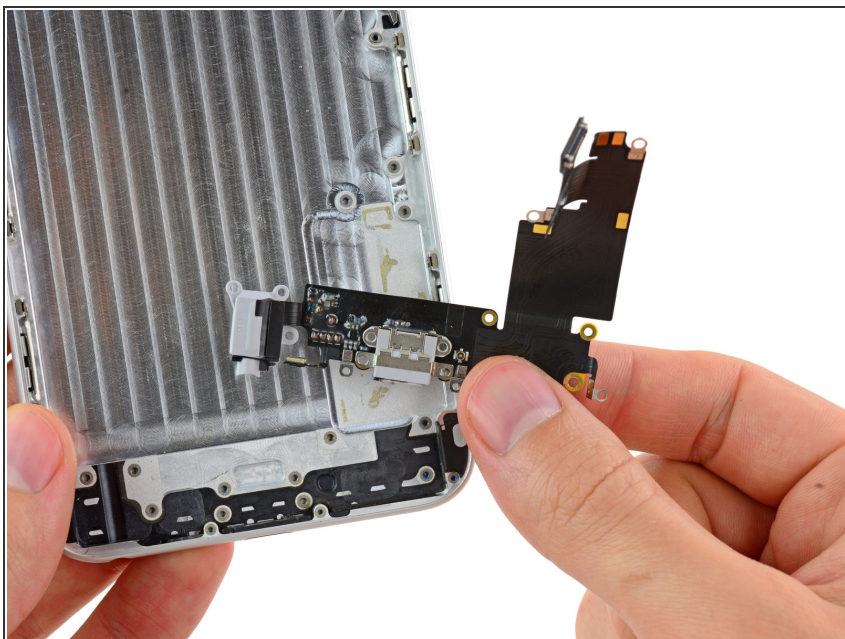
- Insert the pick underneath the right bottom corner of the Lightning connector and headphone jack cable.

Step 82



- Run the opening pick across the top of Lightning connector and headphone jack cable to loosen the adhesive securing it to the rear case.

Step 83



- Lift and remove the Lightning connector and headphone jack cable assembly out of the iPhone.

Step 84 — Rear Case



- Rear case remains.

To reassemble your device, follow these instructions in reverse order.

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